ABSTRACT

The system for determining the absolute angular position θ of a steering wheel (1) of a motor vehicle with respect to the chassis thereof comprises a device for incrementally measuring the relative angular position δ of the steering wheel, a device (2) for measuring the differential velocity Δ V/V of the wheels mounted on the same axle and a processing device (8) for sampling the angular positions and differential velocities at a period t. Said device comprises computing means suitable to determine at moments tn : the estimate $\theta^*(t_n)$ of an absolute angular position $\theta(t_n)$ according to the differential velocity Δ V/V, the mean difference offset(t_n) between the angular positions $\theta^*(t_n)$ and δ (t_i), wherein i is a variant ranging from 0 to n and the absolute angular position $\theta(t_n)$ by the addition between the mean difference offset(t_n) and the angular position $\delta(t_n)$.